

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An orthogonal frequency division multiplexing (OFDM) receiving apparatus for selectively using a plurality of orthogonal frequency division multiplexing reception signals, said orthogonal frequency division multiplexing receiving apparatus comprising:

a plurality of receiving antennas;

a carrier restoring section provided for each of said plurality of receiving antennas, said each carrier restoring section including:

~~Radio~~ a radio frequency and intermediate frequency section ~~for down-converting~~ configured to down-convert a reception signal from a radio frequency band to a base band signal[[;]],

a digital converter configured to convert ~~for converting~~ an analog base band signal received from the radio frequency and intermediate frequency section into a digital signal, and

~~Fourier-transform~~ a Fourier-transform section configured to Fourier-transform ~~for Fourier-transforming~~ said digital signal converted by said digital converter and ~~extracting~~ extract a carrier in frequency domain from said Fourier-transformed digital signal;

a sub-carrier selecting section ~~for comparing~~ configured to compare powers of output signals from said each carrier restoring section provided for each sub-carrier, and selectively ~~combining~~ combine the powers of said output signals for each sub-carrier; and

a power controlling section ~~for controlling~~ configured to control power supplied to said each carrier restoring section ~~connected to said receiving antennas~~, based on sub-carrier selection information from said sub-carrier selecting section.

Claim 2 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 1, further comprising:

a deinterleaver ~~for deinterleaving~~ configured to deinterleave the digital signal output from said digital converter; and

a decoder ~~for decoding~~ configured to decode said deinterleaved signal.

Claim 3 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 1, wherein said power controlling section ~~selects~~ is configured to select a receiving antenna for signal reception signal based on said sub-carrier selection information, and ~~shuts~~ shut off power supplied to at least part of other connected circuits of said carrier restoring section.

Claim 4 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in ~~claim 3,~~ wherein claim 3, wherein said power controlling section ~~shuts~~ is configured to shut off power supplied to part of circuits of said carrier restoring section connected to an antenna other than the selected receiving antenna, including said Fourier transforming section.

Claim 5 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 3, wherein said power controlling section ~~selects~~ is configured to select an antenna from which a satisfactory reception signal can be obtained, by comparing average powers of reception powers of header sections of packets received by each of said plurality receiving antennas.

Claim 6 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 3, wherein said power controlling section ~~selects~~ is configured to select an antenna from which a satisfactory reception signal can be obtained, by comparing average powers of reception powers at each antenna related to a pilot signal introduced to each of a symbol.

Claim 7 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 3, ~~further~~ 3, further comprising:

an open/close switch provided for each of said plurality of receiving antennas and said each carrier restoring ~~sections~~ section; and

a switch controlling section ~~for turning~~ configured to turn an open/close switch corresponding to said selected receiving antenna on and ~~turning~~ turn open/close switches of other receiving antennas off.

Claim 8 (Currently Amended): The orthogonal frequency division multiplexing receiving apparatus as set forth in claim 3, further comprising:

a sub-carrier selectively combining mode ~~for causing~~ configured to cause said power controlling section to supply drive power to all said each carrier restoring ~~sections~~ section connected to each of said receiving antennas and extract carriers from all reception signals, and selectively ~~and combining~~ combine signals for each sub-carrier at said sub-carrier selecting section; and

an antenna selection mode ~~for selecting~~ configured to select one of said receiving antennas from which a satisfactory reception signal may be obtained, based on said sub-carrier selection information and ~~causing~~ cause said power controlling section to supply power only to said carrier restoring section that is connected to said selected antenna.

Claims 9-12 (Canceled).

Claim 13 (Currently Amended): A receiving method for selectively using a plurality of orthogonal frequency division multiplexing (OFDM) reception signals received from a plurality of receiving antennas, said method comprising ~~the steps of:~~

down-converting a reception signal received from at least one of said plurality of receiving antennas from radio frequency band signals to a base band signal;

converting ~~[[an]]~~ said analog base band signal into a digital signal;

Fourier-transforming the digital signal converted at said converting step;

extracting a signal of sub-carrier in a frequency domain from said Fourier-transformed digital signal;

comparing powers of output signals of said Fourier-transforming step for each sub-carrier and selectively combining the powers of the output signals for each sub-carrier; and

controlling power supplied at said down-converting step, said digitally converting step, and said Fourier-transforming step, ~~and said comparing step performed corresponding to said plurality of receiving antennas, based on sub-carrier selection information from said sub-carrier selecting~~ comparing step.

Claims 14-15 (Canceled).